ABSTRACT OF THE DISCLOSURE

There is disclosed a laser microscope in which a beam splitter extracts a part of a laser light of two wavelengths $\lambda 1$ = 488 nm and $\lambda 2$ = 514.5 nm, a prism spectrally resolves the laser light of the two wavelengths $\lambda 1$ and $\lambda 2$, a two-split photodiode detects intensities of two lines spectrally resolved in this manner, and a controller controls an AOTF fixed to an output end of an argon laser based on a detection signal outputted from the two-split photodiode so that respective light intensities of both lines of wavelengths $\lambda 1$ and $\lambda 2$ become constant.